

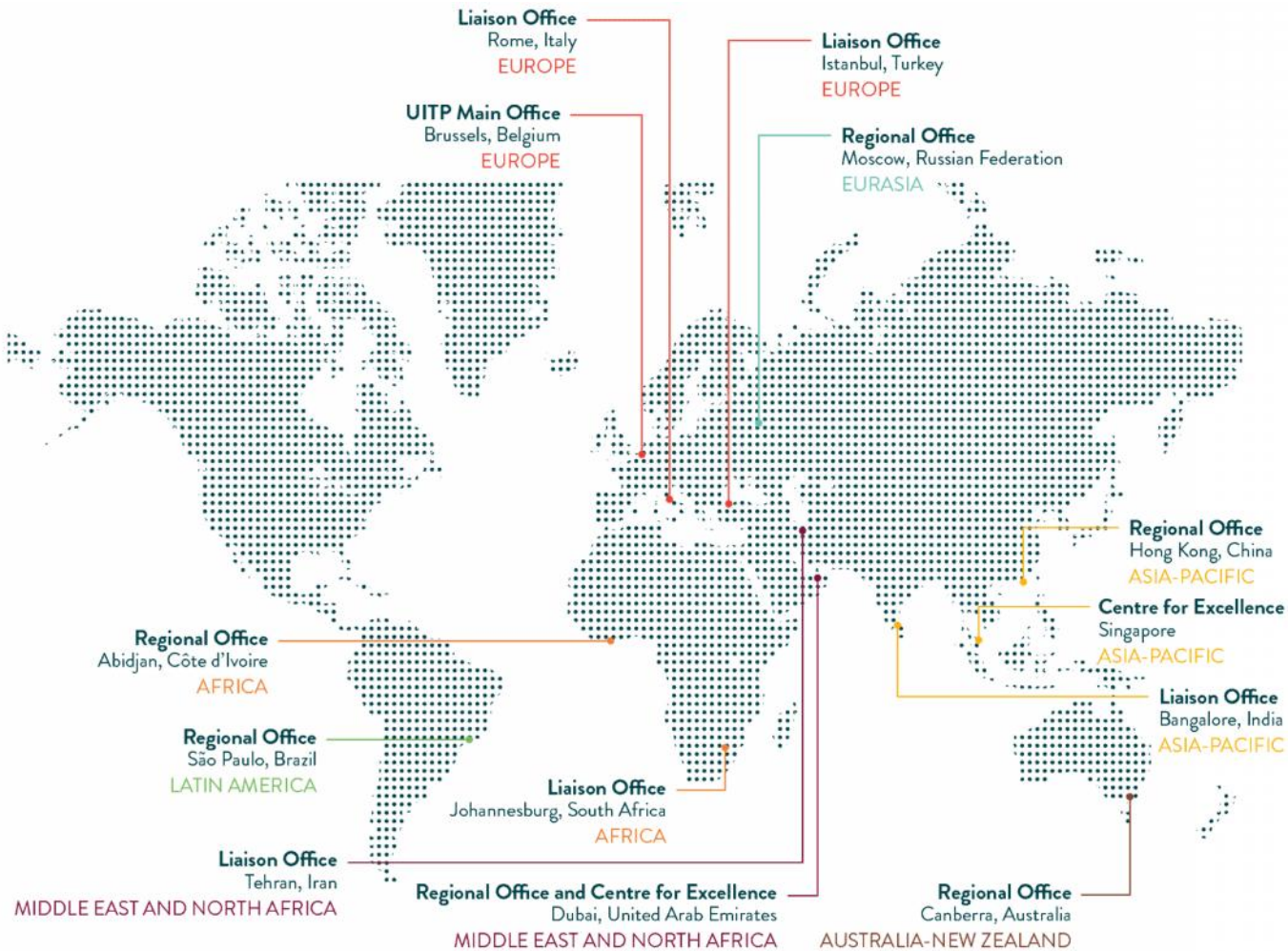
CHANGING MOBILITY LANDSCAPES IN CENTRAL EASTERN EUROPE

Sustainability – Innovation – Strategy

Artur Perchel

International Association of Public Transport

UITP: A GLOBAL ASSOCIATION





UITP: DIVERSE STAKEHOLDERS

1500+ member companies

- Operators
- Authorities
- Public transport supply and service industry
- Research centers, universities, associations

96 countries

UITP Europe: **400+** public transport operators
and authorities involved

Our **mission**: Knowledge | Advocacy | Business

URBAN MOBILITY IN CEE: KEY TRENDS

#1 Urban mobility in CEE is experiencing a fast-forward modernisation of many of its assets and services

#2 EU Structural Funds are undoubtedly the largest source of urban mobility and infrastructure investments

#3 It is currently difficult to find poorly designed projects across the region



€12.2bn from ERDF & CF



2016 CEF call 2.5 x
oversubscribed



JASPERS, CIVITAS,
UMii, ZeEUS...

URBAN MOBILITY IN CEE: FUNDS/FINANCING

	2007-2013 (October 2015)	2014-2020 (estimate October 2015)	Evolution
Road	42.1	30	-12.1
Rail (Transfer from the Cohesion Fund to Connecting Europe Facility)	23.4	18.6 (11.3)	-4.8 (+6.5)
Seaports	3.2	1.9	-1.3
Airports	1.5	0.5	-1
Cycling / Walking	0.7	1.5	+0.8
Inland waterways	0.5	0.8	+0.3
Urban transport	8.1	12.2	+4.1
ITS	1.0	2.1	+1.1
Multimodal transport	1.9	2.3	+0.4
TOTAL	82.4	69.9 (81.2)	-12.5 (-1.2)

#1 KEY TRENDS 2014-2020



SUSTAINABILITY

#1 Less pollution, better air quality,
healthier environment

#2 Reduced congestion

#3 Combined mobility, improved
multimodality



140

Number of
zero emission
buses which
will operate in
Warsaw
in 2020

CASE STUDIES – SUSTAINABILITY (PL)

National Electromobility Strategy 2.0

Electromobility program

- 41 municipalities and three ministries, half of Poland's bus fleet

Goals

- Increased share of electric buses in PT fleets
- Construction of charging infrastructure
- R&D cooperation in the field of electromobility
- Good practice guide for Polish municipalities
- Act on Electromobility
- Establishment of the Low-Emission Transport Fund



SUSTAINABILITY



INNOVATION



STRATEGY

CASE STUDIES – SUSTAINABILITY (PL)

Warsaw's Fleet Electrification Plans (2015 – 2020, source MZA)

Year	Number of e-buses	12m	18m	E-bus share
2015	10	10	-	0.7%
2017	21	20	1	1.5%
2018	32	30	2	2.4%
2019	102	30	72	7.5%
2020	162	30	132	11.9%



SUSTAINABILITY



INNOVATION



STRATEGY

CASE STUDIES – SUSTAINABILITY (PL)

Photovoltaic panels: Warsaw and Kraków fleets



SUSTAINABILITY



INNOVATION



STRATEGY

#2 KEY TRENDS 2014-2020



INNOVATION

#4 Harnessing clean transport technologies

#5 ITS, data management and hackathons

#6 Financial innovation



85%

Costs covered
by EU funds
for the
implementation
of Slovenia's
multimodal
ticketing system

CASE STUDIES – INNOVATION (SI)

SLOVENIA: National ITS deployment

National Reform Program

- “integrated passenger transport” service
- Use of tolls and tax revenues for ITS deployment
- Travel information services
- National e-ticketing system
- Traffic management



SUSTAINABILITY



INNOVATION



STRATEGY

CASE STUDIES – INNOVATION (SI)

Ljubljana & Maribor's multimodal ticketing system

Uniform multimodal ticketing system

- Coordinated by the Ministry of Infrastructure, led by Slovenian Railways
- 85% of costs covered by EU funding
- A single ticket for multimodal journeys
- A single smartcard, a single tariff
- Includes trains, interurban buses and urban transport
- At first, only for school pupils and students – to be extended



SUSTAINABILITY



INNOVATION



STRATEGY

#3 KEY TRENDS 2014-2020



STRATEGY

#7 Fast and reliable public transport

#8 More urban and social integration

#9 Engaging with citizens



6min

Charging time
needed for
Belgrade's
ultracapacitor-
equipped buses
to travel up to
30km

CASE STUDIES – STRATEGY (HU)

Budapest's Balázs Mór Plan (SUMP) 2014-2030

Aims

- Improve citizens' life quality
- Enhance competitiveness
- Make the city sustainable
- Provide safe, predictable and dynamic transport
- Create cooperative regional connections

Strategy

- Provide better services with attractive vehicles on an extended public transport system



SUSTAINABILITY



INNOVATION



STRATEGY

CASE STUDIES – STRATEGY (HU)

Budapest's Balázs Mór Plan (SUMP) 2014-2030

New automated metro line

- 7km long
- Connects two international railway stations
- Total running time: 13min
- Between 2min30 and 10min headway

Modernised tram network

- Refurbished & extended lines
- New rolling stock

New rolling stock

- 20 fully electric buses
- 49 CNG buses
- Trams, trolleybuses...



SUSTAINABILITY



INNOVATION



STRATEGY



RESHAPING URBAN MOBILITY IN CENTRAL & EASTERN EUROPE

Sustainability - Innovation - Strategy



Thank you for your attention!

artur.perchel@uitp.org